

Notice of Allowability

Application No.

10/726,420

Examiner

Iraj A. Mohandesi

Applicant(s)

POTTER, STEVEN D.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/06/2006.
2. ☒ The allowed claim(s) is/are 1-74.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

KARL TAYLOR
PRIMARY EXAMINER

DETAILED ACTION

1. Claims 1,69,71,72 and 73 are allowed.
2. Claim 74 has been allowed in previous office action.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:
4. Regarding claims 1 and 71-73, the prior art of the record in particular Goldie'131 does not teach or suggest a supporting structure for a linear reluctance motor having an actuation axis, the linear reluctance motor comprising a stator including a set of spaced blades each extending in the direction of the actuation axis, each blade including a plurality of alternating low permeability and high permeability teeth including inter alias , an active component associated with either the stator, the shuttle, or both, the active component divided into at least N phases, each phase including a set of blades, a flux return portion, and a coil wound around the flux return portion to produce flux through the sets of interleaved blades in a direction substantially transverse to the actuation axis, wherein the set of blades is substantially electrically isolated from current supplied to the linear reluctance motor such that substantially no flux is generated by the set of blades.
5. Regarding claims 69, the prior art of the record in particular Goldie'131 does not teach or suggest a supporting structure for a linear reluctance motor having an actuation axis, the linear reluctance motor comprising a stator divided into N phases in sets, each phase including a set of opposing spaced blades extending in the direction of the actuation axis and including inter alias , set of blades being substantially electrically

isolated from current supplied to the linear reluctance motor such that substantially no flux is generated by the set of blades, each phase including a flux return plate; and a coil wound around the flux return plate to produce flux in a direction substantially transverse to the actuation axis and a shuttle including a set of opposing spaced blades extending in the direction of the actuation axis and inwardly from a shuttle housing to interleave with the blades of the stator the shuttle housing telescopingly received in the stator housing.

6. Regarding claim 74, The prior art of the record in particular Goldie'131 does not teach or suggest a supporting structure for a linear reluctance motor having an actuation axis, the linear reluctance motor comprising: a stator including a set of spaced blades each extending in the direction of the actuation axis, each blade including a plurality of alternating low permeability and high permeability teeth a shuttle also including a set of spaced blades each extending in the direction of the actuation axis interleaved with the blades of the stator including inter alias, a shuttle including at least a first pair of adjacent blade sets opposing a second pair of adjacent blade sets defining two phases and a third pair of adjacent blade sets opposing a fourth pair of adjacent blade sets defining two additional phases.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A. Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

I.A Mohandesi


K. R. TAMAI
PRIMARY EXAMINER